

# Index to Technical News Bulletin—Volume 41, 1957

A	Page	P
A-c instrument calibration, power supplies for (Feb.)	31	Par-
Accelerometers, electrodynamic standards for (Jan.)	11	Par-
Actinium, emission spectra of (Apr.)	49	Par-
Addendum to Radiation Handbook 60 (June)	92	Par-
Aircraft engine spaces, fire detection in (Jan.)	8	Petro-
Aircraft fuels, heats of combustion (Oct.)	151	Plas-
Aircraft panel warning light (Oct.)	118	Plas-
Airplane cameras, calibration of (Nov.)	170	Plas-
Applications of optical techniques at millimeter wavelengths (Feb.)	58	Plas-
Atmospheric radio noise recording program (June)	83	Plas-
Attenuation coefficients, X-ray, NBS Circular on (Aug.)	119	Plas-
Automatic computers, punched-card transcriber for (Mar.)	38	Plas-
Automatic frequency control circuits, preferred (Mar.)	45	Plas-
Awards of Postdoctoral Resident Research Associateships (Nov.)	182	Plas-
<b>B</b>		
Batteries, wax-electrolyte (Oct.)	149	Radi-
Bearings, oil-free (Mar.)	35	Radi-
Bibliography on nitrogen-15 (May)	71	Radi-
Bone char research, 1957 conference on (Aug.)	123	Radi-
Bone mineral, crystal chemistry of (June)	88	Radi-
Boulder Laboratories, Electronic Calibration Center (Feb.)	24	Radi-
Bubble chamber, liquid hydrogen (Sept.)	129	Radi-
<b>C</b>		
Calibration of a-c instruments, power supplies for (Feb.)	31	Radi-
Calibration of airplane cameras (Nov.)	170	Radi-
Calibration of neutron sources (Oct.)	131	Radi-
Calibration of rf voltmeters, console for (Oct.)	147	Radi-
Calibration of viscometers discontinued (Oct.)	160	Radi-
Cameras, airplane, calibration of (Nov.)	170	Radi-
Carbohydrates, classification system for (July)	97	Radi-
Catalyst for parahydrogen production (Oct.)	154	Radi-
Ceramic coatings, effect of on creep of alloys (Jan.)	6	Radi-
Cinchonine analysis of tanning materials (Aug.)	122	Radi-
Circular on electrical standardizing laboratories (Jan.)	15	Radi-
Clamp-type a-c microammeter (Dec.)	192	Radi-
Classification system for carbohydrates (July)	97	Radi-
Concrete destructive alkali-aggregate reaction in (Dec.)	199	Radi-
Conference on bone char research, 1957 (Aug.)	123	Radi-
Conference on Weights and Measures, 42d (Sept.)	142	Radi-
Console for rf voltmeter calibration (Oct.)	147	Radi-
Controlled slack quenching of impact specimens (Oct.)	161	Radi-
Core losses, measurement of (Apr.)	60	Radi-
Creep of alloys, effect of ceramic coatings on (Jan.)	6	Radi-
Cryogenic Engineering Conference (Nov.)	177	Radi-
Crystal chemistry of tooth and bone mineral (June)	88	Radi-
Crystallography of cold drawn music wire (Aug.)	118	Radi-
<b>D</b>		
Destructive alkali-aggregate reaction in concrete (Dec.)	199	Radi-
Dielectric measurements, versatile specimen holder for (Jan.)	14	Radi-
Dielectrics Section established (Jan.)	15	Radi-
Direct measurement of tire operating temperatures (Mar.)	76	Radi-
Distribution of certain short-lived radioisotope standards (June)	93	Radi-
Dry cells, gassing of (Aug.)	126	Radi-
<b>E</b>		
Economy in the planning of experiments (May)	78	Radi-
Effect of ceramic coatings on creep of alloys (Jan.)	6	Radi-
Effects of notch depth and low temperature on the tensile properties of titanium (Nov.)	172	Radi-
Electrical standardizing laboratories, Circular on (Jan.)	15	Radi-
Electrodynamic standards for vibration pickups (Jan.)	11	Radi-
Electro-optical study of low-density gas flow (Oct.)	158	Radi-
Electronic Calibration Center at NBS Boulder Laboratories (Feb.)	24	Radi-
Electronic computer study of English syntax patterns (June)	84	Radi-
Electronics subminiaturization techniques (Jan.)	3	Radi-
Electroplating light metals from organic solutions (Apr.)	52	Radi-
Emission spectra of actinium (Apr.)	49	Radi-
Estimating heats of combustion of aircraft fuels (Oct.)	151	Radi-
Experimental standard frequency broadcast on 60 kilocycles (July)	99	Radi-
Experiments, economy in planning (May)	78	Radi-
Extremely small permanent magnets (Nov.)	179	Radi-
<b>F</b>		
Fatigue failure of long springs (Mar.)	46	Radi-
Fatigue testing machine for spring wire (Apr.)	63	Radi-
Ferromagnetic core losses, measurement of, at high flux densities (Apr.)	60	Radi-
Film: Assignment-Weights and Measures (Oct.)	147	Radi-
Film: Testing Mass Standards by Substitution (Feb.)	21	Radi-
Films, ordinary and dental, radiation monitoring with (Apr.)	55	Radi-
Fire detection in aircraft engine spaces (Jan.)	8	Radi-
Fire extinguisher, small, tests of (Sept.)	134	Radi-
Fire protection research at NBS (Mar.)	41	Radi-
FOSDIC II (May.)	72	Radi-
Fractional factorial experiment designs (Oct.)	78	Radi-
Free-radicals research program (Jan.)	1	Radi-
<b>G</b>		
Free Radicals Symposium: Announced (Feb.)	1	Radi-
Program (Sept.)	1	Radi-
Report (Dec.)	20	Radi-
Frequency, experimental standard broadcast on 60 kilocycles (July)	1	Radi-
Frequency standard, portable (Apr.)	1	Radi-
<b>H</b>		
Handbook of mathematical tables (June)	91	Radi-
Heats of combustion of aircraft fuels (Oct.)	151	Radi-
Helium liquefaction with the large hydrogen liquefier (Dec.)	197	Radi-
High-frequency magnetic measurements (June)	91	Radi-
High-pressure packing, improved (Feb.)	23	Radi-
Hydraulic research in the United States (June)	86	Radi-
Hydrogen, liquid, catalyst for (Oct.)	154	Radi-
<b>I</b>		
IGY, NBS participation in (Sept.)	136	Radi-
IGY World Warning Agency (May)	65	Radi-
Improved high-pressure packing (Feb.)	22	Radi-
Insertion ratio, self-calibrating method of measuring (Sept.)	132	Radi-
Instrument calibration, power supplies for (Feb.)	31	Radi-
Instruments reference service, microcote method (Sept.)	141	Radi-
Insulation, thermal, with reflective surfaces (Dec.)	185	Radi-
Integrometer (Aug.)	124	Radi-
Intercomparison of national free-air standards, portable standard instrument for (Dec.)	199	Radi-
International Commission on Radiological Units and Measurements, report of (June)	95	Radi-
International Geophysical Year, NBS participation in (Sept.)	136	Radi-
<b>K</b>		
Kinetic theory of imperfect gases (Oct.)	145	Radi-
<b>L</b>		
Large bubble chamber (Sept.)	129	Radi-
Low-temperature insulation, powders for (June)	87	Radi-
<b>M</b>		
Magnesia, unhydrated, in lime hydrates, rapid determination of (Nov.)	180	Radi-
Magnetic measurements, high-frequency (June)	91	Radi-
Magnets, extremely small (Nov.)	179	Radi-
Maximum permissible radiation exposures to man (Feb.)	17	Radi-
Measurement of ferromagnetic core losses at high flux densities (Apr.)	60	Radi-
Measurement of service area for television broadcasting (Aug.)	113	Radi-
Mechanized production of electronics, program terminated (Jan.)	5	Radi-
Mechanization of Post Office operations: status report (Nov.)	174	Radi-
Metals, light, electropolishing from organic solutions (Apr.)	52	Radi-
Metals, X-rays measure textural stresses in (Nov.)	165	Radi-
Microammeter, a-c, clamp-type (Dec.)	192	Radi-
Microcote—an aid to more effective referencing (Sept.)	111	Radi-
Microstructure of crazed plastics (Dec.)	194	Radi-
Millimeter wavelengths, optical techniques applied at (Feb.)	28	Radi-
Modification of the basis for roentgen calibrations between 0.5 and 3 Mev (Dec.)	198	Radi-
Modular design of electronics, program terminated (Jan.)	5	Radi-
Musical pitch, standard (Aug.)	120	Radi-
Music wire, cold drawn, crystallography of (Aug.)	118	Radi-
<b>N</b>		
NBS Electronic Calibration Center at Boulder (Feb.)	24	Radi-
NBS participation in IGY (Sept.)	136	Radi-
National Conference on Weights and Measures, 42d (Sept.)	142	Radi-
Neutron calibration service (Sept.)	131	Radi-
Neutron Physics Section established (May)	75	Radi-
New color scale for petroleum products (Oct.)	152	Radi-
New film announced: Assignment-Weights and Measures (Oct.)	117	Radi-
New radiation handbook (June)	95	Radi-
New standard samples for rubber compounding (Feb.)	22	Radi-
New weights and measures film: Testing Mass Standards by Substitution (Feb.)	21	Radi-
Nickel oxide, standard samples of (Feb.)	23	Radi-
Nitrogen-15 bibliography on (May)	71	Radi-
Noise, atmospheric radio, recording program (June)	83	Radi-
Nuclear physics, reversal of parity law in (Apr.)	55	Radi-
Numerical analysis, training program in (July)	162	Radi-
<b>O</b>		
Oil-free bearings, small (Mar.)	35	Radi-
Optical techniques, application at millimeter wavelengths (Feb.)	28	Radi-
Oxide systems, immiscibility in (Nov.)	167	Radi-

# Index to Technical News Bulletin—Volume 41, 1957

A	Page	P
A-c instrument calibration, power supplies for (Feb.)	31	Par-
Accelerometers, electrodynamic standards for (Jan.)	11	Par-
Actinium, emission spectra of (Apr.)	49	Par-
Addendum to Radiation Handbook 60 (June)	92	Par-
Aircraft engine spaces, fire detection in (Jan.)	8	Petro-
Aircraft fuels, heats of combustion (Oct.)	151	Plas-
Aircraft panel warning light (Oct.)	118	Plas-
Airplane cameras, calibration of (Nov.)	170	Plas-
Applications of optical techniques at millimeter wavelengths (Feb.)	58	Plas-
Atmospheric radio noise recording program (June)	83	Plas-
Attenuation coefficients, X-ray, NBS Circular on (Aug.)	119	Plas-
Automatic computers, punched-card transcriber for (Mar.)	38	Plas-
Automatic frequency control circuits, preferred (Mar.)	45	Plas-
Awards of Postdoctoral Resident Research Associateships (Nov.)	182	Plas-
<b>B</b>		
Batteries, wax-electrolyte (Oct.)	149	Radi-
Bearings, oil-free (Mar.)	35	Radi-
Bibliography on nitrogen-15 (May)	71	Radi-
Bone char research, 1957 conference on (Aug.)	123	Radi-
Bone mineral, crystal chemistry of (June)	88	Radi-
Boulder Laboratories, Electronic Calibration Center (Feb.)	24	Radi-
Bubble chamber, liquid hydrogen (Sept.)	129	Radi-
<b>C</b>		
Calibration of a-c instruments, power supplies for (Feb.)	31	Radi-
Calibration of airplane cameras (Nov.)	170	Radi-
Calibration of neutron sources (Oct.)	131	Radi-
Calibration of rf voltmeters, console for (Oct.)	147	Radi-
Calibration of viscometers discontinued (Oct.)	160	Radi-
Cameras, airplane, calibration of (Nov.)	170	Radi-
Carbohydrates, classification system for (July)	97	Radi-
Catalyst for parahydrogen production (Oct.)	154	Radi-
Ceramic coatings, effect of on creep of alloys (Jan.)	6	Radi-
Cinchonine analysis of tanning materials (Aug.)	122	Radi-
Circular on electrical standardizing laboratories (Jan.)	15	Radi-
Clamp-type a-c microammeter (Dec.)	192	Radi-
Classification system for carbohydrates (July)	97	Radi-
Concrete destructive alkali-aggregate reaction in (Dec.)	199	Radi-
Conference on bone char research, 1957 (Aug.)	123	Radi-
Conference on Weights and Measures, 42d (Sept.)	142	Radi-
Console for rf voltmeter calibration (Oct.)	147	Radi-
Controlled slack quenching of impact specimens (Oct.)	161	Radi-
Core losses, measurement of (Apr.)	60	Radi-
Creep of alloys, effect of ceramic coatings on (Jan.)	6	Radi-
Cryogenic Engineering Conference (Nov.)	177	Radi-
Crystal chemistry of tooth and bone mineral (June)	88	Radi-
Crystallography of cold drawn music wire (Aug.)	118	Radi-
<b>D</b>		
Destructive alkali-aggregate reaction in concrete (Dec.)	199	Radi-
Dielectric measurements, versatile specimen holder for (Jan.)	14	Radi-
Dielectrics Section established (Jan.)	15	Radi-
Direct measurement of tire operating temperatures (Mar.)	76	Radi-
Distribution of certain short-lived radioisotope standards (June)	93	Radi-
Dry cells, gassing of (Aug.)	126	Radi-
<b>E</b>		
Economy in the planning of experiments (May)	78	Radi-
Effect of ceramic coatings on creep of alloys (Jan.)	6	Radi-
Effects of notch depth and low temperature on the tensile properties of titanium (Nov.)	172	Radi-
Electrical standardizing laboratories, Circular on (Jan.)	15	Radi-
Electrodynamic standards for vibration pickups (Jan.)	11	Radi-
Electro-optical study of low-density gas flow (Oct.)	158	Radi-
Electronic Calibration Center at NBS Boulder Laboratories (Feb.)	24	Radi-
Electronic computer study of English syntax patterns (June)	84	Radi-
Electronics subminiaturization techniques (Jan.)	3	Radi-
Electroplating light metals from organic solutions (Apr.)	52	Radi-
Emission spectra of actinium (Apr.)	49	Radi-
Estimating heats of combustion of aircraft fuels (Oct.)	151	Radi-
Experimental standard frequency broadcast on 60 kilocycles (July)	99	Radi-
Experiments, economy in planning (May)	78	Radi-
Extremely small permanent magnets (Nov.)	179	Radi-
<b>F</b>		
Fatigue failure of long springs (Mar.)	46	Radi-
Fatigue testing machine for spring wire (Apr.)	63	Radi-
Ferromagnetic core losses, measurement of, at high flux densities (Apr.)	60	Radi-
Film: Assignment-Weights and Measures (Oct.)	147	Radi-
Film: Testing Mass Standards by Substitution (Feb.)	21	Radi-
Films, ordinary and dental, radiation monitoring with (Apr.)	55	Radi-
Fire detection in aircraft engine spaces (Jan.)	8	Radi-
Fire extinguisher, small, tests of (Sept.)	134	Radi-
Fire protection research at NBS (Mar.)	41	Radi-
FOSDIC II (May.)	72	Radi-
Fractional factorial experiment designs (Oct.)	78	Radi-
Free-radicals research program (Jan.)	1	Radi-
<b>G</b>		
Free Radicals Symposium: Announced (Feb.)	1	Gas
Program (Sept.)	1	Gas
Report (Dec.)	20	Gas
Frequency, experimental standard broadcast on 60 kilocycles (July)	1	Gas
Frequency standard, portable (Apr.)	1	Gas
<b>H</b>		
Handbook of mathematical tables (June)	91	Hand-
Heats of combustion of aircraft fuels (Oct.)	151	Hand-
Helium liquefaction with the large hydrogen liquefier (Dec.)	197	Hand-
High-frequency magnetic measurements (June)	91	Hand-
High-pressure packing, improved (Feb.)	23	Hand-
Hydraulic research in the United States (June)	86	Hand-
Hydrogen, liquid, catalyst for (Oct.)	154	Hand-
<b>I</b>		
IGY, NBS participation in (Sept.)	136	IGY
IGY World Warning Agency (May)	65	IGY
Improved high-pressure packing (Feb.)	22	IGY
Insertion ratio, self-calibrating method of measuring (Sept.)	132	IGY
Instrument calibration, power supplies for (Feb.)	31	IGY
Instruments reference service, microcote method (Sept.)	141	IGY
Insulation, thermal, with reflective surfaces (Dec.)	185	IGY
Integrometer (Aug.)	124	IGY
Intercomparison of national free-air standards, portable standard instrument for (Dec.)	199	IGY
International Commission on Radiological Units and Measurements, report of (June)	95	IGY
International Geophysical Year, NBS participation in (Sept.)	136	IGY
<b>K</b>		
Kinetic theory of imperfect gases (Oct.)	145	Kin-
<b>L</b>		
Large bubble chamber (Sept.)	129	Large
Low-temperature insulation, powders for (June)	87	Large
<b>M</b>		
Magnesia, unhydrated, in lime hydrates, rapid determination of (Nov.)	180	Magn-
Magnetic measurements, high-frequency (June)	91	Magn-
Magnets, extremely small (Nov.)	179	Magn-
Maximum permissible radiation exposures to man (Feb.)	17	Magn-
Measurement of ferromagnetic core losses at high flux densities (Apr.)	60	Magn-
Measurement of service area for television broadcasting (Aug.)	113	Magn-
Mechanized production of electronics, program terminated (Jan.)	5	Mech-
Mechanization of Post Office operations: status report (Nov.)	174	Mech-
Metals, light, electropolishing from organic solutions (Apr.)	52	Mech-
Metals, X-rays measure textural stresses in (Nov.)	165	Mech-
Microammeter, a-c, clamp-type (Dec.)	192	Mech-
Microcote—an aid to more effective referencing (Sept.)	111	Mech-
Microstructure of crazed plastics (Dec.)	191	Mech-
Millimeter wavelengths, optical techniques applied at (Feb.)	28	Mech-
Modification of the basis for roentgen calibrations between 0.5 and 3 Mev (Dec.)	198	Mech-
Modular design of electronics, program terminated (Jan.)	5	Mech-
Musical pitch, standard (Aug.)	120	Mech-
Music wire, cold drawn, crystallography of (Aug.)	118	Mech-
<b>N</b>		
NBS Electronic Calibration Center at Boulder (Feb.)	24	NBS
NBS participation in IGY (Sept.)	136	NBS
National Conference on Weights and Measures, 42d (Sept.)	142	NBS
Neutron calibration service (Sept.)	131	NBS
Neutron Physics Section established (May)	75	NBS
New color scale for petroleum products (Oct.)	152	NBS
New film announced: Assignment-Weights and Measures (Oct.)	117	NBS
New radiation handbook (June)	95	NBS
New standard samples for rubber compounding (Feb.)	22	NBS
New weights and measures film: Testing Mass Standards by Substitution (Feb.)	21	NBS
Nickel oxide, standard samples of (Feb.)	23	Nick-
Nitrogen-15 bibliography on (May)	71	Nitro-
Noise, atmospheric radio, recording program (June)	83	Noise
Nuclear physics, reversal of parity law in (Apr.)	55	Nucl-
Numerical analysis, training program in (July)	162	Nucl-
<b>O</b>		
Oil-free bearings, small (Mar.)	35	Oil-fre-
Optical techniques, application at millimeter wavelengths (Feb.)	28	Optic-
Oxide systems, immiscibility in (Nov.)	167	Optic-

## P

	Page
Packings, improved high-pressure (Feb.)	22
Parahydrogen production, catalyst for (Oct.)	154
Parity law in nuclear physics, reversal of (Apr.)	56
Permissible radiation exposures to man (Feb.)	17
Petrochemical products, new color scale for (Oct.)	152
pH scale, temperature range extended (Nov.)	169
Plastics, for aircraft, stretch-oriented transparent (May)	67
Plastics, crazed, microstructure of (Dec.)	194
Plastic coatings, porosity detection in (Mar.)	44
Porosity in enamels, weathering of (Mar.)	33
Porosity detection in plated coatings (Mar.)	44
Portable frequency standard (Apr.)	62
Portable standard radiation-exposure instrument (Dec.)	190
Position indicator, rotor (Feb.)	29
Post office operations, mechanization of (Nov.)	174
Powders for low-temperature insulation (June)	87
Power supplies for instrument calibration (Feb.)	31
Preferred automatic frequency control circuits (Mar.)	45
Program completed for free radicals symposium (Sept.)	143
Program in mechanized production of electronics terminated (Jan.)	5
Pulse generator, gated-beam tube (Aug.)	116
Punched-card transcriber for automatic computers (Mar.)	38

## R

Radiation-exposure instrument, portable standard (Dec.)	190
Radiation exposures to man, maximum permissible (Feb.)	17
Radiation Handbook 60, addendum to (June)	92
Radiation Handbook 62 (June)	95
Radiation monitoring with ordinary roll and dental films (Apr.)	55
Radiation protection group appoints new executive committee (July)	98
Radio noise, atmospheric, recording program (June)	83
Radio scientists attend URSI Conference (Dec.)	187
Radioisotope standards, short-lived, distribution of (June)	93
Rapid determination of unhydrated magnesia in lime hydrates (Nov.)	180
Reversal of parity law in nuclear physics (Apr.)	56
Rf voltmeter calibration consoles (Oct.)	117
Rheology Section established (Apr.)	54
Roentgen calibrations, modifications of basis between 0.5 and 3 Mev (Dec.)	198
Rotor position indicator (Feb.)	29
Rubber compounding, new standard samples for (Feb.)	22

## S

Samples, standard, NBS Circular on (July)	103
Self-calibrating method of measuring insertion ratio (Sept.)	132
Simple transistor beta tester (June)	93
Simplified pulse generator (Aug.)	116
Slack quenching, effect on impact properties of steel (Oct.)	161
Small fire extinguisher tests (Sept.)	131
Small oil-free bearing (Mar.)	35
Solar furnace (July)	101
Spectra, actinium (Apr.)	59
Spectrographic standard samples of zinc-base alloys (Jan.)	2
Spring wire, fatigue testing machine for (Apr.)	63
Springs, fatigue failure of (Mar.)	46
Standard musical pitch (Aug.)	129

## Publications of the National Bureau of Standards

Journal of Research of the National Bureau of Standards, Volume 59, No. 5, November 1957 (RP2801 to RP2805 incl.), 60 cents. Annual subscription \$4.00.  
 Technical News Bulletin, Volume 41, No. 11, November 1957, 10 cents. Annual subscription \$1.00.  
 Basic Radio Propagation Predictions for February 1958. Three months in advance. CRPL-D 159. Issued November 1957, 10 cents. Annual subscription \$1.00.

### Research Papers

*Journal of Research, Volume 59, No. 5, November 1957. 60 cents.*  
 RP2801. A determination of the gamma-ray emission of radium. Frank H. Attix and Victor H. Ritz.  
 RP2802. Radiation from slots on dielectric clad and corrugated cylinders. James R. Wait and Alyce M. Conda.  
 RP2803. Infrared emission spectrum of methane at 3.3 microns. Earle K. Plyler and Lamdin R. Blaine.  
 RP2804. Term analysis of the first spectrum of rhenium (Re I). P. F. A. Klinkenberg, W. F. Meggers, R. Velasco, and M. A. Catalán.  
 RP2805. An apparatus for measurement of thermal conductivity of solids at low temperatures. Robert L. Powell, William M. Rogers, and Don O. Coffin.

December 1957

	Page
Standard samples for rubber compounding (Feb.)	22
Standard samples of nickel oxide (Feb.)	154
Standard samples of zinc-base alloys, spectrographic (Jan.)	2
Standard samples and reference standards (July)	103
Steel, ultra-high-strength (June)	81
Stretch-oriented transparent plastic for aircraft (May)	67
Structural interpretation of immiscibility in oxide systems (Nov.)	167
Subminiaturization techniques, electronic (Jan.)	3
Symposium, Free Radicals (Dec.)	200
Symposium, very-low-frequency (May)	70
Syntax patterns, English, electronic computer study of (June)	84

## T

Tables, mathematical, handbook of (June)	94
Tanning materials, cinchonine analysis of (Aug.)	122
Television broadcasting, measurement of service area for (Aug.)	113
Temperature range of pH scale extended (Nov.)	169
Testing of Weighing Equipment (reprinted) (May)	75
Textural stresses in metals measured by X-ray (Nov.)	165
Thermal insulation with reflective surfaces (Dec.)	185
Tire operating temperatures, direct measurement of (May)	76
Titanium, tensile properties (Nov.)	172
Training program in numerical analysis (July)	102
Transcriber, punch-card, for automatic computers (Mar.)	38
Transistor beta tester (June)	93
Tooth mineral, crystal chemistry of (June)	88

## U

Ultra-high-strength steel (June)	81
URSI Conference (Dec.)	187
URSI to meet in Boulder (Mar.)	39

## V

Versatile specimen holder for dielectric measurements (Jan.)	14
Very-low-frequency symposium (May)	70
Vibration pickups, electrodynamic standards for (Jan.)	11
Viscometer calibration discontinued (Oct.)	160
Voltmeter, rf, calibration consoles (Oct.)	147

## W

Warning light for aircraft panels (Oct.)	148
Wax-electrolyte batteries (Oct.)	119
Weathering of porcelain enamels (Mar.)	33
Weights and Measures films (Feb.)	21
(Oct.)	147
Weighing equipment, testing of (reprinted) (May)	75
World Warning Agency, IGY (May)	65

## X

X-ray attenuation coefficients from 10 kev to 100 Mev, NBS Circular 583 (Aug.)	119
--	-----

## Z

Zinc-base alloys, spectrographic standard samples of (Jan.)	2
---	---

### Circulars

C539. Volume 7. Standard X-ray diffraction powder patterns. Howard E. Swanson, Nancy T. Gilfrich, and Marlene I. Cook. 40 cents.

### Handbooks

H28. Part I. Screw-thread standards for federal services (1957). \$1.25.

### Publications in Other Journals

Field-strength variations recorded on a VHF ionospheric scatter circuit during the solar event of February 23, 1956. Hope L. Leighton. J. Geophys. Research (Editorial Office, 5241 Broad Branch Rd., N. W., Washington 15, D. C.) 62 (1957).

Further studies of an electronic thickness gage: circuitry, operating characteristics, and calibration. Frederick P. Brodell and Abner Brenner. Plating. (The American Electroplaters' Society, American Bldg., 445 Broad St., Newark 2, N. J.) 44, No. 6, 591-601 (June 1957).